

EC-TYPE EXAMINATION CERTIFICATE (MODULE B)

Certificate no.:
MEDB00000GZ
Revision no.:
4

Application of: Directive 2014/90/EU of 23 July 2014 on marine equipment (MED), issued as "Forskrift om Skipsutstyr" by the Norwegian Maritime Authority. This Certificate is issued by DNV AS under the authority of the Government of Norway.

This is to certify:

that the **Sprinkler systems components for accommodation spaces, service spaces and control stations equivalent to that referred to in SOLAS 74 Reg. II-2/12 (limited to nozzles and their performance)**

with type designation(s)
Neptun

issued to
Vid Fire-Kill ApS
Svendborg, Denmark

is found to comply with the Implementing Regulation (EU) 2025/1533 for
Item no. **MED/3.9 (Row 1 of 1)**

according to the following requirements:

SOLAS 74 Reg. II-2/7, SOLAS 74 Reg. II-2/9, IMO Res. MSC.36(63)-(1994 HSC Code) 7, IMO Res. MSC.44(65), IMO Res. MSC.97(73)-(2000 HSC Code) 7, IMO MSC/Circ.912, IMO MSC/Circ.1556, SOLAS 74 Reg. II-2/10, SOLAS 74 Reg. X/3, IMO Res. MSC.98(73)-(FSS Code) 8

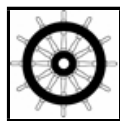
Further details of the equipment and conditions for certification are given overleaf.

Date of issue: **2026-02-10**

Expiry date: **2031-02-09**

DNV local unit:
Denmark CMC

Approval Engineer:
Tessa Biever



Notified Body
no.: **0575**



for **DNV AS**

Digitally Signed By:

Christine Mydlak-Röder

Christine Mydlak-Röder
Head of Notified Body



The mark of conformity may only be affixed to the above type approved equipment and a Manufacturer's Declaration of Conformity issued when the production-surveillance module (D, E or F) of Annex B of the MED is fully complied with and controlled by a written inspection agreement with a Notified Body. The product liability rests with the manufacturer or his representative in accordance with Directive 2014/90/EU.

This certificate is valid for equipment, which is conform to the approved type. The manufacturer shall inform DNV AS of any changes to the approved equipment. This certificate remains valid unless suspended, withdrawn, recalled or cancelled.

Should the specified regulations or standards be amended during the validity of this certificate, the product is to be re-approved before being placed on board a vessel to which the amended regulations or standards apply.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to USD 300 000.

Product description

"Neptun"

is an automatic fast response low-pressure water mist system of wet pipe type. The system is composed of sprinkler heads, stainless steel piping, sprinkler valves, control system, strainers, pumps and a pressure tank.

The system is to be designed in accordance with the "Principal Requirements for the System" in IMO Res. A.800(19) as amended by IMO Res. MSC.265(84).

Only the sprinklers are type approved by this certificate. Other components are to be approved and/or certified case by case.

Application/Limitation

Approved for use as an automatic water sprinkler system for accommodation areas, public spaces, service spaces and store rooms.

For overview of sprinkler head types and its installation please see Appenedix.

For all applications:

- A. Maximum system working pressure is 16 bar, while the minimum working pressure at the sprinkler heads is 6 bar, except for stores which are 9 bar.
- B. All sprinkler heads are to be installed in the ceiling in a pendant (downward) position, except model OH-SWC which has to be placed sideways located centred in front wall.
- C. All sprinkler heads are made of brass and are fitted with Job F2 bulbs, with nominal releases temperature of 57 °C (orange). Bulbs with higher temperature ratings, but not more than 30 °C above ambient temperature, are subject to approval in each case.
- D. The pumps (or pump unit) shall be delivered with product certificate, whereas other system components are to be certified or inspected in accordance with Class Rules (or equivalent standard as specified by the Flag Administration).
- E. Redundant pump arrangement is to be approved on a case by case basis.
- F. Only stainless steel piping or equivalent fire and corrosion resistant pipes are to be applied (to avoid clogging of sprinklers). Primary water supply shall be fresh water of potable quality.
- G. Pipes, couplings and other components are regarded as "Class III" piping.
- H. The pump unit and section valves shall be installed in a room having ambient temperature between 4°C and 45°C.

The following documents are to be approved and filed by the Flag State Administration for each project:

- a. System arrangement plans including location of sprinklers, pipes, sections valves, control system and pump-unit.
- b. Specification of pipes, valves, electrical motor, pumps, pressurised tank(s) and associated components (including water supply specifications).
- c. Pressure drop calculations and water capacity calculations.
- d. Arrangement of power supply and control system.
- e. Manual containing installation, operation and maintenance instructions.

Other documents:

- Gas cylinders, gas pumps, any pipes above DN 50 mm, valves and couplings above DN 100 mm are to be delivered with product certificates (or standards considered by the Flag Administration to be equivalent);
- Documentation for other components (according to EN 3.1B and EN 2.2, as applicable) shall be submitted to the site representative of the Flag Administration.

Installation

- Water to be in accordance with manufacturer's specification for water quality. No chemicals shall be added to the water, for the purpose of e.g. cleaning, bacterial control, corrosion inhibition, etc., without the acceptance from the Manufacturer.

Installation testing:

- Not less than 2 sprinkler heads in each section shall be tested. Testing may be limited to 10 sections. i.e. 2 x 10 sprinkler heads if it is successful.
- Automatic start and stop of pumps.
- Automatic change over from main to emergency electric supply.
- Alarms at the manned control station(s) shall be tested.
- Other tests as required by Class rules (pressure testing of piping, etc.) and according to maker's manual (or equivalent standard as specified by the Flag Administration).

Periodical testing:

- The testing shall comply with instructions from flag administration, Statutory Interpretations and maker's maintenance manual.
- Not less than 2 sprinkler heads shall be tested annually. Further testing will be required in case of failure(s) or for systems older than 5 years.

Please see Appendix: Application/Limitation

Type Examination documentation

Please see Appendix: Type Examination Documentation

Tests carried out

Fire performance test in accordance with IMO Res. A.800(19) and as amended by IMO Resolution MSC.265(84).

Component test in accordance with IMO Res. A.800(19) and as amended by IMO Resolution MSC.265(84).

Marking of product

The sprinkler heads are to be marked with type designation, the Mark of Conformity, Notified Body No. and the year of manufacturing (see first page) whereas the pump unit is to be marked with name and address of manufacturer and type designation.

APPENDIX

Type Examination documentation

Certificate no.:
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Document No.	Rev.	Title
80930-596	E	Drawing dated 31 January 2024 from manufacturer.
81201-624	D	Drawing dated 31 January 2024 from manufacturer.
91104-737	C	Drawing dated 31 January 2024 from manufacturer.
100519-830	B	Drawing dated 31 January 2024 from manufacturer.
151202-4106	B	Drawing dated 31 January 2024 from manufacturer.
151203-4107	C	Drawing dated 31 January 2024 from manufacturer.
151203-4109	B	Drawing dated 31 January 2024 from manufacturer.
190405-5011	B	Drawing dated 31 January 2024 from manufacturer.
201014-5153	B	Drawing dated 31 January 2024 from manufacturer.
161202-01	06	Design, Installation, Operation & Maintenance Manual
DFL-090320-35		DFL 090320-35 Ventilation test report
DFL-110110-48		Test report dated 13 August 2010 from DFL, Svendborg, Denmark.
DFL-110415-5		Test report dated 15 April 2011 from DFL, Svendborg, Denmark.
DFL-111014-57	A	Test report dated 15 April 2010 from DFL, Svendborg, Denmark.
DFL-111014-58		Test report dated 15 December 2009 from DFL, Svendborg, Denmark.
DFL-150918-161A		Test report dated 6 November 2015 from DFL, Svendborg, Denmark.
DFL-150918-161B		Test report dated 23 October 2015 from DFL, Svendborg, Denmark.
DFL-150918-161C		Test report dated 26 November 2015 from DFL, Svendborg, Denmark.
DFL-150918-161D		Test report dated 2 December 2015 from DFL, Svendborg, Denmark.
DFL-201016-264		Tets report dated 20 October 2020 from DFL, Svendborg, Denmark.
DFL-201029-266	A	Tets report dated 30 October 2020 from DFL, Svendborg, Denmark.

APPENDIX

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Installation shall be in accordance with table 1, appendix 2, IMO Res. MSC.265(84):

Application	Sprinkler head	Max. spacing [m]	Distance to wall [m]
Cabins < 12 m ² (4.0 x 3.0) ⁴⁾	OH-CA1	One per room	0.9
Cabins < 18 m ² (4.5 x 4.0) ⁴⁾	OH-SWC	One centred located in front wall ³⁾	
Cabins < 20 m ² (5.0 x 4.0) ⁴⁾	OH-CA	Two per room	0.9
Cabins < 22 m ² (5.5 x 4.0) ⁴⁾	OH-CA2	Centred	2.75
Corridors ²⁾	OH-CO	3.0	1.5 ⁵⁾
Public space (h < 2.5 m)	OH-L0	2.5	1.3
Public space (h < 2.5 m)	OH-L1	4.0	2.0
Public space (h < 5 m) ¹⁾	OH-L2	4.0	2.0
Storage areas	OH-PX1	4.0	2.0

Note:

- 1) Ceiling height of more than 5 meter is subject to case-by-case approval.
- 2) Maximum width of corridor should not exceed 1.5 m.
- 3) Installed 0.12 m beneath the ceiling.
- 4) Cabin area is gross area, including wet unit.
- 5) Nozzle centred in corridor. Distance to wall is at the end of the corridor.

Sprinkler head	k-factor [lpm/bar ^{1/2}]	Pressure [bar]	Min. flow [lpm]	Drawings
OH-CA1	13.0	6.0	31.8	151202-4106-A
OH-SWC	23.0	6.0	56.3	100519-830-A
OH-CA	10.0	6.0	24.5	151203-4109-A
OH-CA2	18.0	6.0	44.0	201014-5153-A
OH-CO	15.5	6.0	38.0	190405-5011-A
OH-L0	7.0	6.0	17.0	151203-4107-B
OH-L1	13.5	6.0	33.1	91104-737-C
OH-L2	14.5	6.0	35.5	81201-624-C
OH-PX1	23.0	9.0	69.0	80930-596-D